

## ABSTRACT:

A method for thermally-assisted magnetic recording at an areal density above 100 Gb/in<sup>2</sup> combines thermo-magnetic writing and optical or magnetic reading. In order to increase the stability of the recorded information, writing is carried out at an elevated temperature on a medium with a very high coercivity at room temperature. The magnetic write head determines the trackwidth (44), allowing very small trackwidths.

Fig. 4

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